REMARKS

Claims 1-56 are pending in the application. In the Office Action of August 13, 2004, the Examiner made the following disposition:

A.) Rejected claims 2, 5-10, 14-16, 26, 29, 30-34, 38, 39, 43, 44, 46-51 and 53 under 35 U.S.C. §103(a) as being allegedly unpatentable over *Calder et al. (U.S. Patent No. 5,963,972)* in view of *Motoyama et al. (U.S. Patent No. 5,535,318)*.

B.) Rejected claims 3, 4, 17-19, 27, 28, 40-42, 45 and 52 under 35 U.S.C. §103(a) as being allegedly unpatentable over *Calder et al. (U.S. Patent No. 5,963,972)* in view of *Motoyama et al. (U.S. Patent No. 5,535,318)*, and further in view of *Kitamura (U.S. Patent No. 5,457,806)*.

C.) Rejected claims 20-24 and 54-56 under 35 U.S.C. §102(a) and (b) as being allegedly anticipated by *Motoyama et al. (U.S. Patent No. 5,535,318)*.

D.) Rejected claim 25 under 35 U.S.C. §103(a) as being allegedly unpatentable over *Motoyama et al. (U.S. Patent No. 5,535,318)* in view of *Kitamura (U.S. Patent No. 5,457,806)*.

E.) Objected to claims 11-13 and 35-37.

F.) Allowed claim 1.

Applicants respectfully traverse the rejections and address the Examiner's disposition below.

A.) Rejected claims 2, 5-10, 14-16, 26, 29, 30-34, 38, 39, 43, 44, 46-51 and 53 under 35 U.S.C. §103(a) as being allegedly unpatentable over *Calder et al. (U.S. Patent No. 5,963,972)* in view of *Motoyama et al. (U.S. Patent No. 5,535,318)*.

Applicants respectfully disagree with the rejection.

Independent claim 2, as amended, claims a method in a data processing system for developing a data flow program comprising code segments that operate on data in memory. Data read and data write identifiers for each code segment are stored. The data read and data write identifiers identify at least a portion of the data read or written by the code segment. Dependencies between blocks are determined based on the read and write identifiers.

Independent claim 26, as amended, claims a computer-readable medium containing instructions that cause a data processing system to perform a method for developing a data flow program comprising code segments that operate on data in memory. Data read and data write identifiers for each code segment are stored. The data read and data write identifiers identify at least a portion of the data read or written by the code segment. Dependencies between blocks are

determined based on the read and write identifiers.

Independent claim 43, as amended, claims a data processing system comprising a memory comprising a data flow program and a data flow development tool that associates data processed by the data flow program with blocks in the memory. The data flow program stores data read and data write identifiers for each code segment, the data read and data write identifiers identifying at least a portion of the data read or written by the code segment; and determines dependencies between the blocks that provide an execution order for the blocks based on the data read and data write identifiers.

Independent claim 53, as amended, claims a data processing system for developing a data flow program. The data processing system comprises means for storing data read and data write identifiers for each code segment, the data read and data write identifiers identifying at least a portion of the data read or written by the code segment; and means for determining dependencies between the regions based on the data read and data write identifiers.

Therefore, independent claims 2, 26, 43 and 53, each as amended, each claim subject matter relating to storing data read and data write identifiers for each code segment, the data read and data write identifiers identifying at least a portion of the data read or written by the code segment; and determining dependencies based on the data read and data write identifiers.

This is clearly unlike *Calder* in view of *Motoyama*, which fails to disclose or suggest storing Applicants' claimed data read and data write identifiers and fails to disclose or suggest determining dependencies based on the data read and data write identifiers. In fact, *Calder* and *Motoyama*, taken singly or in combination, fails to even discuss Applicants' claimed data read and data write identifiers. Therefore, *Calder* in view of *Motoyama* fails to disclose or suggest claims 2, 26, 43, and 53.

Claims 5-10, 14-16, 29, 30-34, 38, 39, 44 and 46-51 depend directly or indirectly from claims 2, 26 or 43 and are therefore allowable for at least the same reasons that claims 2, 26 and 43 are allowable.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

B.) Rejected claims 3, 4, 17-19, 27, 28, 40-42, 45 and 52 under 35 U.S.C. §103(a) as being allegedly unpatentable over *Calder et al. (U.S. Patent No. 5,963,972)* in view of *Motoyama et al. (U.S. Patent No. 5,535,318)*, and further in view of *Kitamura (U.S. Patent No. 5,457,806)*.

Applicants respectfully disagree with the rejection.

Independent claims 2, 26 and 43 are allowable over *Calder* in view of *Motoyama* as discussed above. *Kitamura* still fails to disclose or suggest Applicants' claimed data read and data write identifiers. Therefore, *Calder* in view of *Motoyama* and further in view of *Kitamura* still fails to disclose or suggest claims 2, 26 and 43.

Claims 3, 4, 17-19, 27, 28, 40-42, 45 and 52 depend directly or indirectly from claims 2, 26 or 43 and are therefore allowable for at least the same reasons that claims 2, 26 and 43 are allowable.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

C.) Rejected claims 20-24 and 54-56 under 35 U.S.C. §102(a) and (b) as being allegedly anticipated by *Motoyama et al. (U.S. Patent No. 5,535,318).*

Applicant respectfully disagrees with the rejection.

Independent claim 20, as amended, claims a method in a data processing system for developing a data flow program comprising nodes. Dependencies between nodes are determined based on data read and data write identifiers for code segments associated with the respective nodes, the data read and data write identifiers identifying at least a portion of data read or written by the code segment.

Independent claim 54, as amended, claims a computer readable memory device encoded with a data structure accessed by a data flow development tool run by a processor in a system. The data structure comprises: data read and data write identifiers for each code segment, the data read and data write identifiers identifying at least a portion of the data read or written by the code segment; and dependencies between nodes determined based on the data read and data write identifiers.

Therefore, independent claims 20 and 54, each as amended, each claim subject matter relating to data read and data write identifiers for each code segment, the data read and data write identifiers identifying at least a portion of the data read or written by the code segment; and dependencies based on the data read and data write identifiers.

This is clearly unlike *Motoyama*, which fails to disclose or suggest Applicants' claimed data read and data write identifiers and fails to disclose or suggest dependencies based on the data read and data write identifiers. In fact, *Motoyama* fails to even discuss Applicants' claimed data read and data write identifiers. Therefore, *Motoyama* fails to disclose or suggest claims 20 and

54.

Claims 21-24, 55 and 56 depend directly or indirectly from claims 20 or 54 and are therefore allowable for at least the same reasons that claims 20 and 54 are allowable.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

D.) Rejected claim 25 under 35 U.S.C. §103(a) as being allegedly unpatentable over *Motoyama et al. (U.S. Patent No. 5,535,318)* in view of *Kitamura (U.S. Patent No. 5,457,806).*

Applicants respectfully disagree with the rejection.

Independent claim 20 is allowable over *Motoyama* as discussed above. *Kitamura* still fails to disclose or suggest Applicants' claimed data read and data write identifiers. Therefore, *Motoyama* in view of *Kitamura* still fails to disclose or suggest claim 20.

Claim 25 depends directly or indirectly from claim 20 and is therefore allowable for at least the same reasons that claim 20 is allowable.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

E.) Objected to claims 11-13 and 35-37.

Independent claims 1 and 26 are allowable as discussed above.

Claims 11-13 depend directly or indirectly from claim 1 and are therefore allowable for at least the same reasons that claim 1 is allowable.

Claims 35-37 depend directly or indirectly from claim 26 and are therefore allowable for at least the same reasons that claim 26 is allowable.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

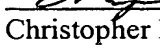
F.) Allowed claim 1:

Applicants respectfully acknowledge the Examiner's finding of allowable subject matter in claim 1.

CONCLUSION

In view of the foregoing, it is submitted that claims 1-56 are patentable. It is therefore submitted that the application is in condition for allowance. Notice to that effect is respectfully requested.

Respectfully submitted,

 (Reg. No. 45,034)

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